

Successful Academic, Private, and Public Sector Collaboration: The Development of the Purdue – Colombia Aviation and Aerospace Network of Excellence

Robert F. Cox, Ph.D.

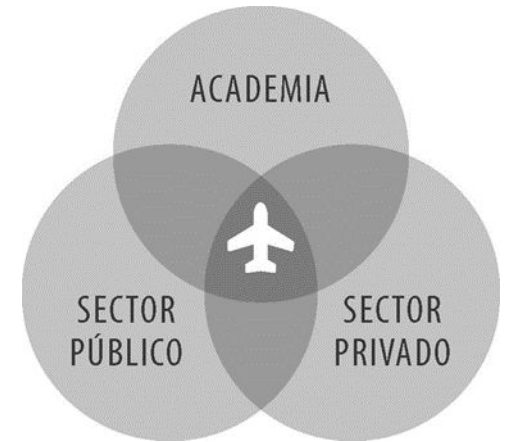
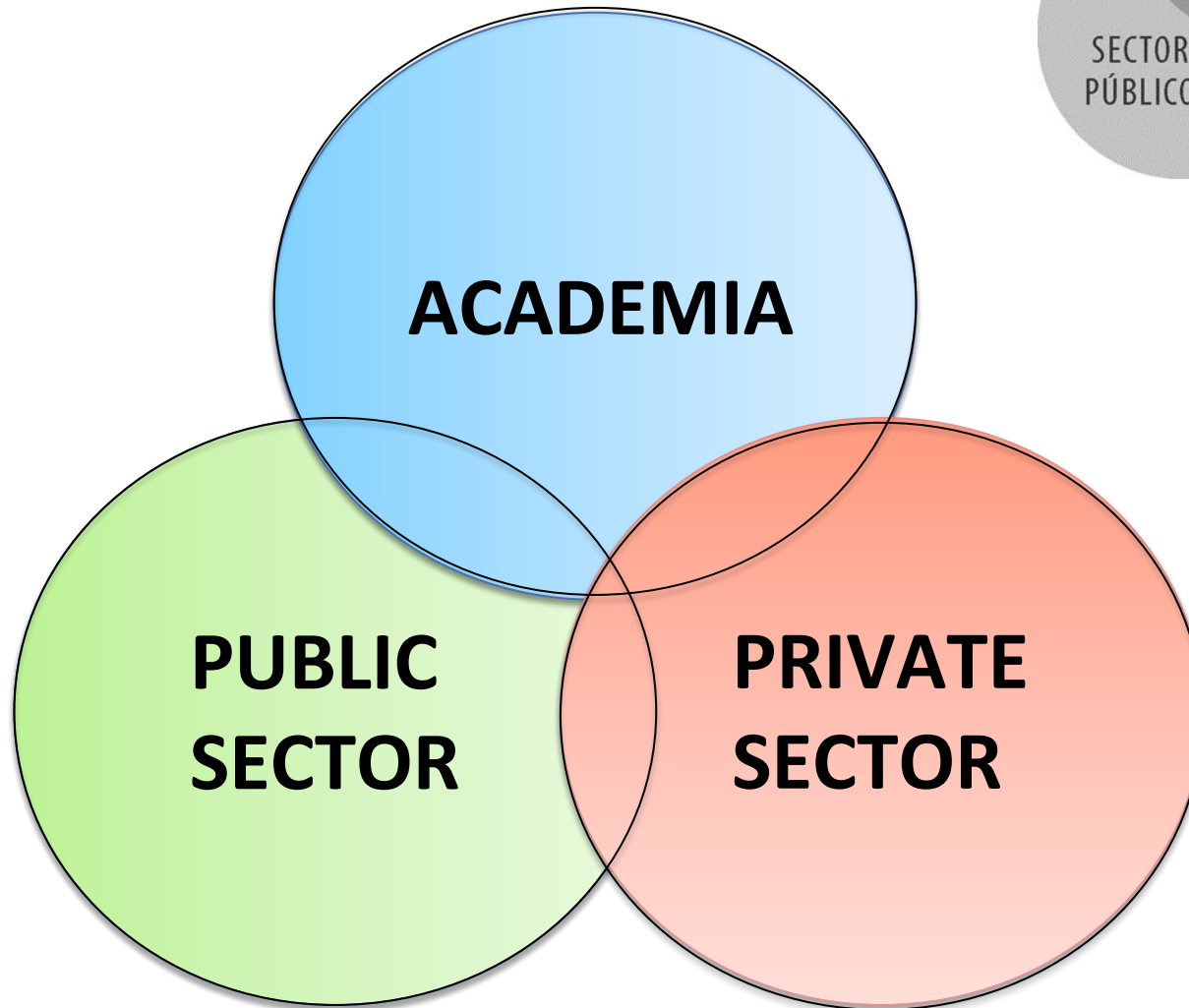
Senior Associate Dean for Globalization and Global Fellow, Purdue University

POLYTECHNIC SUMMIT – JUNE 4-6, 2018

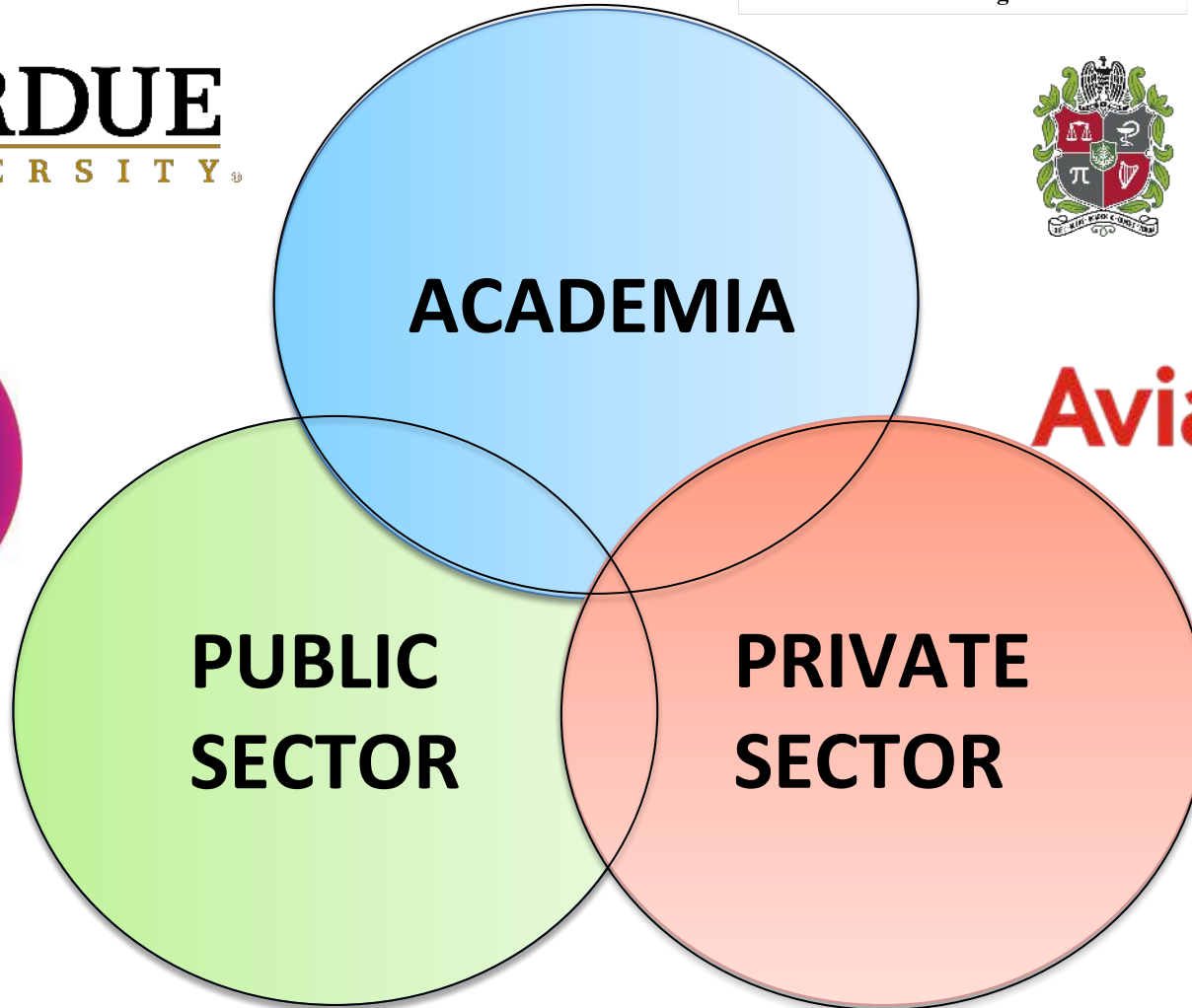
Lima, Peru



The Basis for Success



The Basis for Success



Network of Excellence

The founding Network of Excellence members have come together to focus on the comprehensive improvement of the aviation and aerospace industries of Colombia and the greater Latin American region through successful development and delivery of university-level degree programs, applied research, professional development programs, community outreach, and engagement activities.

Capitalizing on our combined strengths and resources, we are effectively collaborating on mutually identified opportunities and challenges facing the Colombian aviation and aerospace industry.

Sustainable Positive Impacts on Colombia



**REPRESENTATIVE
STAKEHOLDERS**

New Products and Innovation

**Research and
Development**

PhD Programs

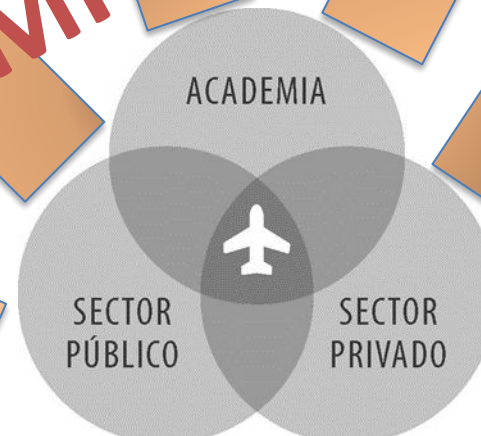
MS Programs

BS Programs

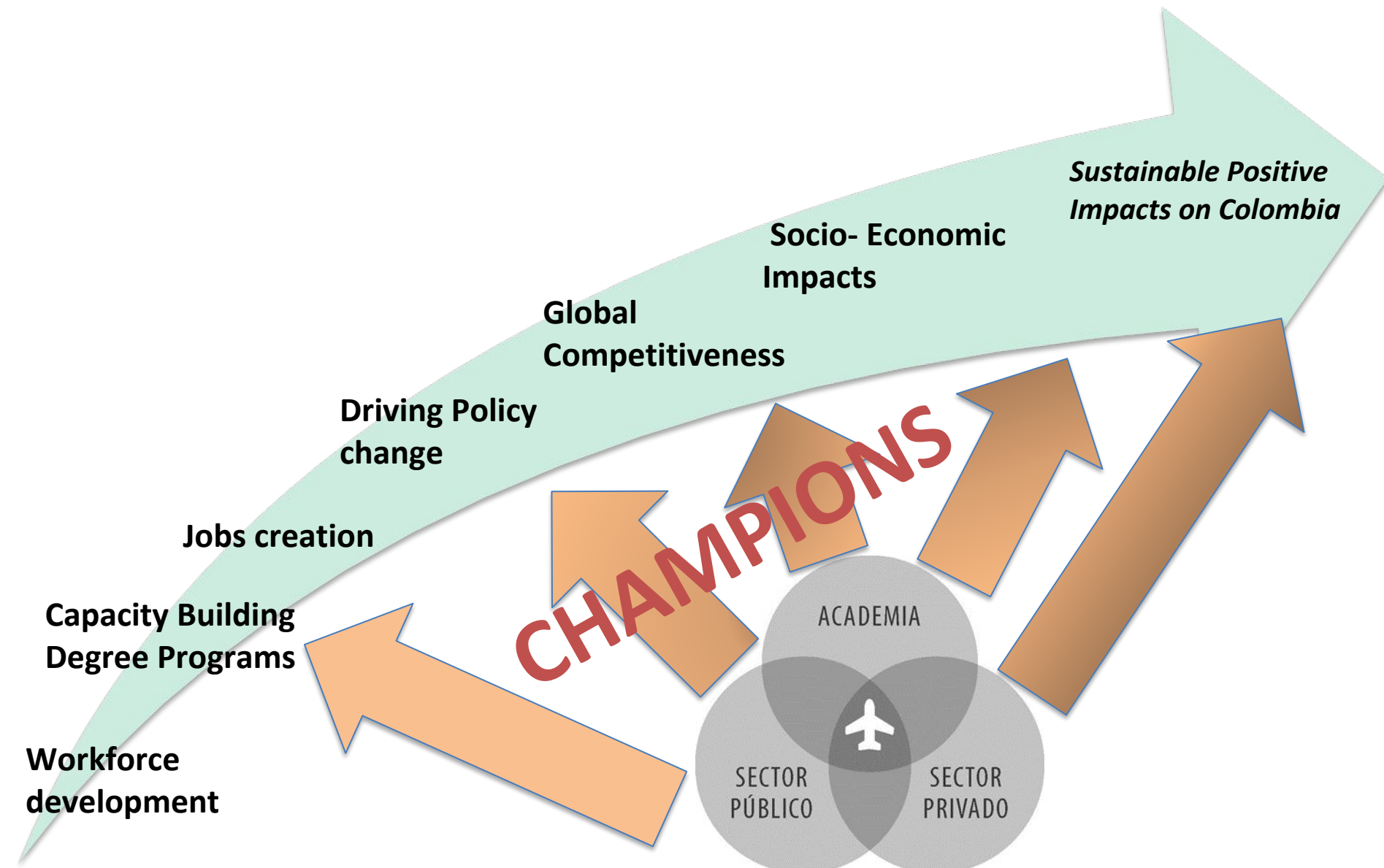
TRAINING and EDUCATION
**- Professional
Development
Activities**

**Community
Outreach**

CHAMPIONS



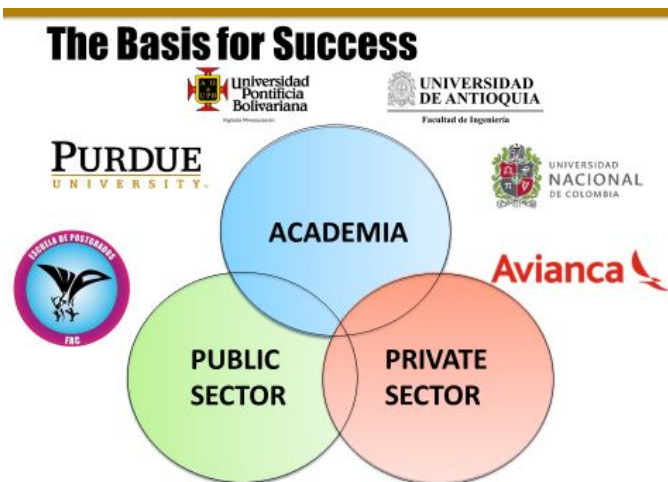
Sustainable Positive Impacts on Colombia



The Roles of Purdue University

Depending on the situation..

- **Leader**
- **Facilitator**
- **Capacity Builder / Supporter**



Purdue-Colombia Aviation and Aerospace NOE

THE BASIS FOR SUCCESS

- **Champions embracing education, government, and corporate perspectives.**
- **Capitalizing on our combined strengths and resources.**
- **Collaborating on mutually identified opportunities and challenges facing the Colombian Aviation and Aerospace industries.**
- **Local collaborations support a national movement**

Purdue-Colombia Aviation and Aerospace NOE

FOCUS AREAS

The founding members have come together to focus on the comprehensive improvement of the aviation and aerospace industries of Colombia through:

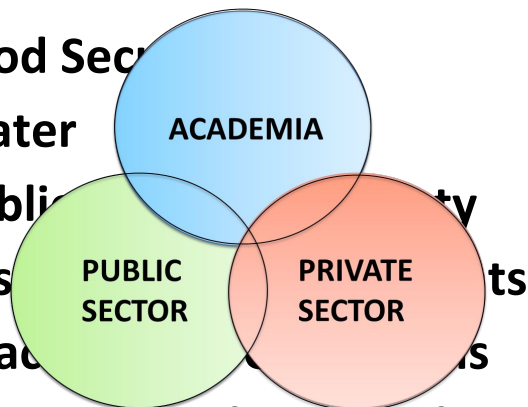
- **successful development and delivery of university-level degree programs,**
- **applied research,**
- **professional development programs,**
- **community outreach,**
- **engagement activities and**
- **faculty and student mobility activities.**

Purdue-Colombia Aviation and Aerospace NOE

THE IDEAL MODEL FOR REPEATING...

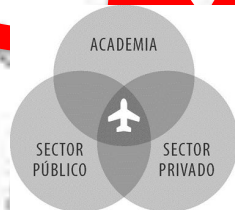
This Network Concept will serve as the ideal model for providing long-term solutions in Colombia through a series of similar network partnerships.

- Food Security
- Water
- Public Safety
- Sustainability
- Peacekeeping
- Disaster Readiness and Response
- Agriculture

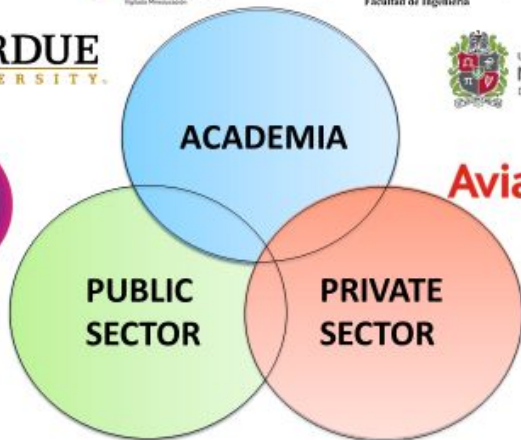


2018 POLYTECHNIC SUMMIT MEETING – JUNE 4-6 – Lima, Peru

This NOE will inspire broad and positive economic impact throughout Colombia and Latin America.



The Basis for Success



Purdue-Colombia Aviation and Aerospace NOE

TASK FORCE LEADERSHIP

MRO Operations:

Denver Lopp, Professor Emeritus, School of Aviation & Transportation, denver@purdue.edu

Earth and Observation:

Julian Mauricio Arenas, Coordinador Ingeniería Aeroespacial, jmauricio.arenas@udea.edu.co

James L. Garrison, Ph.D., Professor of Aeronautics and Astronautics, jgarriso@purdue.edu

Renewable Energy and Sustainability:

Cr. Martin Zorrilla, Comandante Grupo Academico, EPFAC, martin.zorrilla@epfac.edu.co

Jose' Bravo Garcia, Ph.D., Assistant Professor, School of Engineering Technology, jmgarcia@purdue.edu

Aerospace and Aviation Materials:

Jorge Ivan Garcia, Director Facultad Ingeniería Aeronáutica, jorge.garcia@upb.edu.co

Andres Arrieta, Ph.D., Assistant Professor of Mechanical Engineering, aarrieta@purdue.edu

Purdue-Colombia Aviation and Aerospace NOE

FOR MORE INFORMATION

PURDUE UNIVERSITY

Robert F. Cox, Senior Associate Dean and Global Fellow, rffcox@purdue.edu

Manoj Patankar, Head, School of Aviation & Transportation, mspatankar@purdue.edu

Jose' Bravo Garcia, Ph.D., Assistant Professor, School of Engineering Technology, jmgarcia@purdue.edu

UNIVERSIDAD DE ANTIOQUIA

Julian Mauricio Arenas, Coordinador Ingeniería Aeroespacial, jmauricio.arenas@udea.edu.co

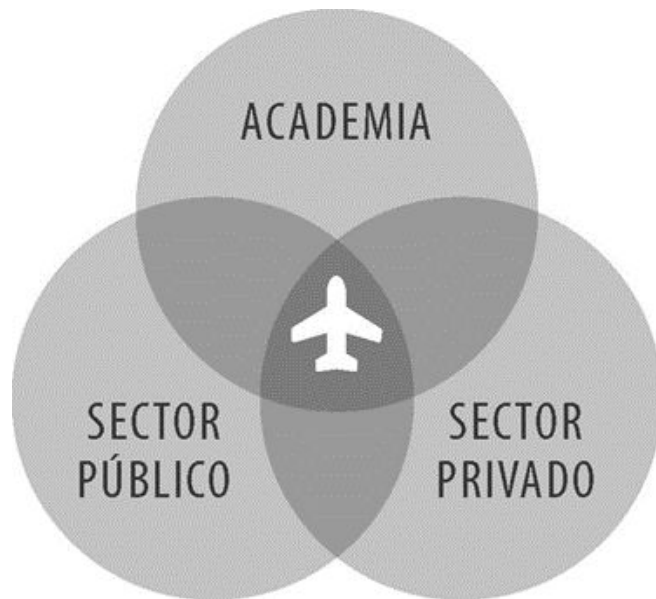
UNIVERSIDAD PONTIFICA BOLIVARIANA

Jorge Ivan Garcia, Director Facultad Ingeniería Aeronáutica, jorge.garcia@upb.edu.co

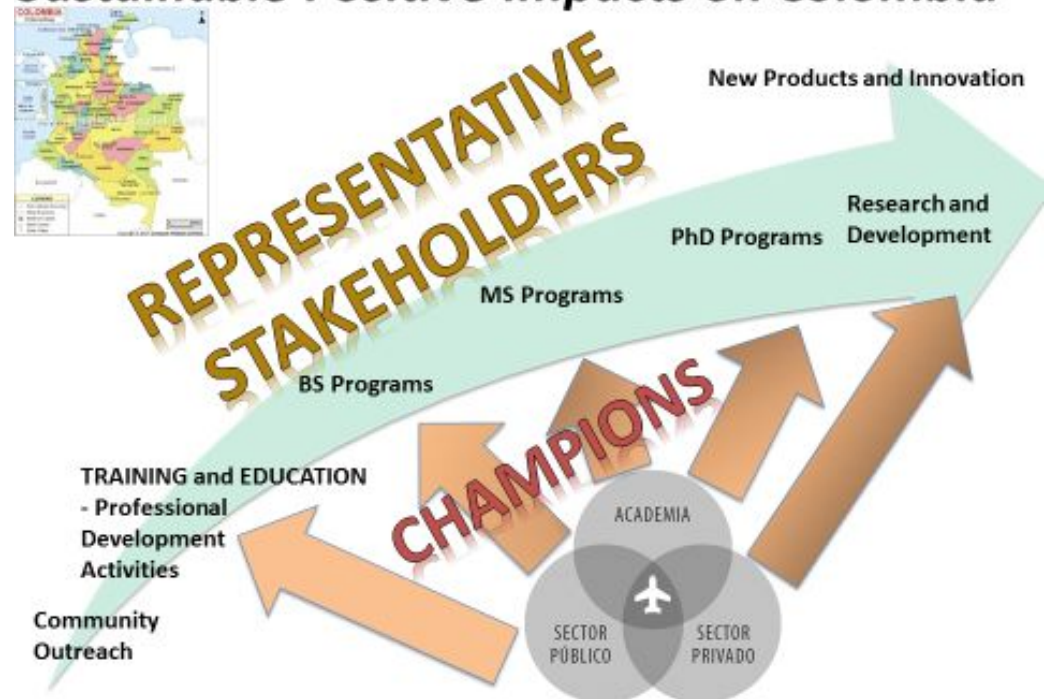
UNIVERSIDAD NACIONAL SEDE MEDELLIN

Alejandro Restrepo Martinez, Professor, School of Mechanical Engineering, Arestre5@unal.edu.co

QUESTIONS



Sustainable Positive Impacts on Colombia



Purdue-Colombia Aviation and Aerospace NOE

SCHOOL OF AVIATION AND TRANSPORTATION TECHNOLOGY



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PURDUE
POLYTECHNIC

AAE Research & Education

Major Aircraft Subsystems and Mission Features



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